

20011218.ba v03_n269.bam.20011218

>From ???@??? Tue Dec 18 13:01:46 2001 -0600
Message-Id: <200112181901.fBIJ1d0V020464@sco.theporch.com>
Date: Tue, 18 Dec 2001 13:01:14 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3269

BOATANCHORS Digest 3269

Topics covered in this issue include:

- 1) ADMINISTRIVIA: Changing Email Addresses
by listown@nanniandjack.com (Mail List Owner)
- 2) Fw: [MilSurplus] Re: ID PE-109-D
by =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
- 3) CV-157 (long)
by Morris Odell <MorrisO@vifp.monash.edu.au>
- 4) Re: [Collins] SP-600 Re-cap info
by Dan <hankarn@pacbell.net>
- 5) RE: Extra Literature Items
by "R. W. Downs - BLB, AL" <RWDowns_WA5CAB@compuserve.com>
- 6) GR test equipment for Xtal engineering
by Neal McEwen <nmcewen@metronet.com>
- 7) RE: SBE-2 Manual
by "R. W. Downs - BLB, AL" <RWDowns_WA5CAB@compuserve.com>
- 8) RE: R-392
by Morris Odell <MorrisO@vifp.monash.edu.au>
- 9) 75A4 Filter Mod
by w5sum@glowbugs.com
- 10) BC-450 CONTROL BOX
by JACK M IVERSON <jackiv@juno.com>
- 11) Wanted: Schematic for Viking II CDC
by Robert Kemp <rkemp@mr.net>
- 12) Annual Hallicrafters FPM-200 Owners Update
by "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>
- 13) Re: 75A4 Filter Mod
by "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
- 14) Ray V's SP-600 drill
by "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
- 15) Seasons Greetings - Updated Downloadable ER Index Now Available
by "Don Buska" <d.buska@Advantest.com>
- 16) Re: Seasons Greetings - Updated Downloadable ER Index Now Available
by "ed sharpe" <esharpe@uswest.net>
- 17) Re: Ray V's SP-600 drill
by "Al Parker" <anchor@ec.rr.com>
- 18) Re: Ray V's SP-600 drill

by "Bill Coleman" <n2bc@stny.rr.com>

Message-Id: <200112171915.fBHJF04C010249@osr506.nanniandjack.com>
From: listown@nanniandjack.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Changing Email Addresses
Date: Mon, 17 Dec 2001 11:15:00 -0800 (PST)

Gang-

This periodic post is intended to help subscribers whose email address has changed, preventing posting or receipt of the list.

If you change ISP (InterNet Service Provider), simply send me an email advising the change, and I will do my best to implement the change quickly.

For those unfortunates, whose ISP has made a change without advising their customers of the potential impact of that change on subscribers to email lists like the boatanchors, where one must be a subscriber to post to the list, try to follow along...

Under some circumstances, the changes to your email address are "transparent" to you, but prevent posting. I get error notification for these kinds of problems, and I try to work them out. However, I may miss one, and on this end, the process is anything BUT automatic.

You have a bigger stick than I do. You and your ISP have the primary responsibility to repair the problems caused by the change at the ISP. I have zero leverage with your ISP, and you have great leverage.

Most ISP maintain a customer service department to help with problems like these. This should be your first line of support for email problems. I am happy to assist and consult, but try to understand that when your ISP makes a change to their email handler, and that change prevents you from posting to the boatanchors list, I can help, but resolving this problem is your responsibility, working with your ISP. I am but a volunteer, contributing my time to administer the list.

Thank you for your attention.

--

73

Jack, W4KH/Mobile - - - BoatAnchor Mailing List Archiver/Owner - - -
listown@nanniandjack.com - "Plus ca change, plus c'est la meme chose"

"Il n'y a que les idiots qui ne changent jamais d'idee"

Mon Dec 17 11:15:00 PST 2001

Message-ID: <000401c18741\$9f0f7960\$15b0e2d1@b1yhp64>
From: =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fw: [MilSurplus] Re: ID PE-109-D
Date: Mon, 17 Dec 2001 16:26:29 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bonsoir to All

According to the Arrow Sales catalogue, the PE-109D is 115v, 400cycles.
Priced at 50\$ in bygone years
Andre

Message-ID:
<07A064EA6042D4118A62009027F70E77181D38@nt_exchange.vifp.monash.edu.au>
From: Morris Odell <MorrisO@vifp.monash.edu.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: CV-157 (long)
Date: Tue, 18 Dec 2001 08:46:52 +1100
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Hi all,

As a result of a satisfying transaction recently a large heavy box arrived in my basement. Inside, nestling in pulverized polystyrene foam from its trip across the country, was just what every R-390A owner needs - a CV-157 SSB/ISB adaptor.

Now this is a ****serious**** boatanchor, 104 lbs, 44 tubes, radioactive meters, 250 watts of power consumption, it's the granddaddy of all R390A accessories. In fact the on/off switch is an industrial size magnetic circuit breaker and there's a satisfying ker-chunk from the power transformer when you pull it in, to say nothing of the ker-chunk from your heart the first time you do it!

Functionally, it's a "Q5er" on a LOT of steroids. Among other things, it was intended to receive signals with voice on one sideband and RTTY on the other, quite an exacting task. The input is the 455 KHz IF output from a receiver such as a R-390A. This is mixed down to 100 KHz and filtered to separate the sideband(s) and carrier (if present). There are two separate demodulators and audio chains for the sidebands as well as a monitor

channel. The carrier is reconstituted and used for various purposes including a squelch and a particularly sexy motor driven AFC which is sure to induce love at first sight in any serious fan of complicated vacuum tube technology. For SSB there is an crystal carrier oscillator in an oven. AGC can be derived from the whole signal, carrier or either sideband and fed back to the receiver.

Mechanically it's built in similar style to the R-390A with the same paint, knobs and meters. The 14 inch high base unit mounts in a 19 inch rack and contains the heavy transformers, chokes, block capacitors and the large sealed crystal filters. The power supply electronics sits on top on a little sub-chassis. The "real innards" are on a drawer, a sort of "rack within a rack" that slides into a frame on top of the base unit and is connected to it by a bulky captive loom of coax and power leads. This makes servicing it a job for a contortionist especially if you have to get under the chassis. I found it was best done with the whole unit on the bench and the drawer out of its slides on its side - there is JUST enough slack to do this.

Considering it was nearly as old as me (the manual is dated 1955) it had weathered the years pretty well and the previous owners hadn't butchered it too much. The insulating cover over the power transformer terminals had disappeared but I found a piece of fibreglass that fitted nicely. The plug that connects the fan power when the cover is installed was gone. There were a few redundant screws missing here & there but the junk box contained suitable replacements. The paint job was acceptable and cosmetically at least it looked a worthy mate for the R-390A.

The first step in getting it going was to replace the US style power connector with an IEC and to provide a proper earth connection. I also like to megger test the power connection to avoid any nasty surprises. The unit proper was fine but the fan was another story of which more below.

Well, you can spend just so much time drooling and inspecting but sooner or later you've got to take a deep breath and pull the switch! Before doing this I connected four 300 ohm load resistors to the two 600 ohm centre tapped audio outputs and got the HP 606B warmed up and stabilized. I flicked on the breaker and was rewarded with a lack of smoke, 42 glowing tubes and that lovely aroma of percolating boatanchor so dear to our hearts. 42 tubes? Didn't I say there were 44? Read on.. It was too much to expect it to work however and in fact it didn't, even with quite a lot of input. There was also a disconcerting lack of movement from the AFC motor.

The first checks should always be the power supply. I found the unregulated DC output was 60 volts too high and the regulated output was 60 volts too low. Not only that, but the plates of the 6080 regulator glowed bright red! The two missing 5R4GYs had been replaced with two 1000 volt diodes wired across the socket pins - rather risky considering that the transformer secondary is 1000 volts CT. Unfortunately replacing them with the proper

tubes didn't cure the problem, and neither did replacing the 6080. Using the charts in the manual, resistance measurements led to an open resistor in the 6080 grid circuit, and replacing it restored the B+ to the proper values.

I started checking the various stages by injecting and tracing signals. Stage by stage the device gradually came to life as the numerous adjustments and tweaks restored proper alignment (rather quaintly spelt as "alinement" in the manual). The tuning slugs have male screwdriver tip studs and locknuts which require a special tool, long gone from its clips. After a few attempts I managed to fabricate a substitute which proved essential especially for the bottom slugs of the double tuned transformers.

Tuning some of the coils was rather tricky, especially in the carrier recovery circuit where the filter is extremely sharp (only a few Hz wide at 100 KHz). It's so sharp that I was initially misled into thinking it was stuffed. You need a really stable signal generator that can be accurately tuned within a KHz or less for the various measurements. The first two 100 KHz stages have an over-coupled bandpass characteristic which has a critical impact on the final audio frequency response. Aligning this according to the book is a tedious business requiring fiddling with damping resistors clipped across various inaccessible points. I found a sweeper helped a lot.

Eventually I was able to hear demodulated sidebands although there was lot of mains hum present. This was caused by heater-cathode leakage in the cathode coupled mixers. Once found, it was easy to fix by swapping tubes with ones in the servo circuit which normally operate with the cathodes at chassis potential. Getting the AFC & squelch working properly was not easy - there was another fault involving an open circuit resistor buried under layers of wiring. The squelch is quite important though as it locks out the AFC in the absence of a signal, preventing spurious mis-tuning. The servo motor has 2 windings whose resistances can be measured from tube socket pins. This initially suggested one open circuited winding which was extremely distressing, but the fault here turned out to be a solder joint that had come undone (phew)!!! Once this was fixed I was delighted to see movement in the little front panel window over the shaft indicator disc.

A cooling fan is essential for the CV-157, especially after restoring the thermionic rectifiers - 20 watts in filament power alone as well as the plate dissipation. The fan has a 115 volt capacitor-run split phase motor connected across half of the power transformer primary. The connector had been clipped off and an exact replacement was impossible to find. I found a suitable substitute but before connecting it, I decided to check the motor. Just as well I did, as the megger showed a low resistance to frame. This was caused by a wire trapped under a bracket which had pierced the insulation - it would have made a dangerous fireworks display had it been energised as it was! Once connected, the motor ran smoothly enough although not as quietly as a modern Muffin.

When connected to the R390A it works very nicely. On AM it locks onto the received carrier beautifully and any drift can be seen quite readily as the AFC indicator rotates to follow the input frequency - very very impressive! Both sidebands sound virtually identical on a strong broadcast signal. SSB or CW is tuned in the conventional way with the AFC turned off and the internal carrier oscillator switched in.

The arrival of the CV-157 prompted a major re-organization here. It's now sitting in a rack with the R-390A and a Singer panadaptor- what a job! It took two of us to lift it in and my friend, who is a modern day RF engineer slowly shook his head in disbelief. It looks and sounds wonderful. In line with my Racal ISB adaptors, I intend rigging up an adaptor/switch box to allow speaker monitoring of the whole setup as well as AM ISB reception to each ear of stereo headphones.

Once the back and muscles recover, the next project will have to be a website to show some pictures of this amazing machine..

73 de Morris VK3DOC

Date: Mon, 17 Dec 2001 14:15:58 -0800
From: Dan <hankarn@pacbell.net>
Subject: Re: [Collins] SP-600 Re-cap info
Cc: collins@qth.net, Don Reaves <w5or@home.com>, Milsurplus@qth.net,
Old Tube Radios <boatanchors@theporch.com>, R-390 reflector <R-390@qth.net>
Message-id: <3C1E6E9E.62EA5ACB@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit
To: Old Tube Radios <boatanchors@theporch.com>

Guys try Al Parkers WEB site at <http://www.thecompendium.net/radio/>.
He has under SP-600 info Ray Vasek's re-cap info plus it is in an issue of ER last year and also in HSN. I forgot all about them.
I am forwarding Tom Lairds info with this as a starter.
I do not feel there is any reason to bother Tom or Al as this will keep you busy for a while just digesting the info. I have 8 of them and 6 of them need the help, 1 of them has been sold. Have a guy on the way to quote the re-cap and restoring for my customer.

Happy Holidays to all es 73
Hank
KN6DI

Date: Mon, 17 Dec 2001 20:46:32 -0500
From: "R. W. Downs - BLB, AL" <RWDowns_WA5CAB@compuserve.com>

Subject: RE: Extra Literature Items
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200112172046_MC3-EB0A-A2D8@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Group,

I have this one in the collection, but for those of you who may not know,=

this is the Signal Corps manual on the National HRO series. Published
1946.

Message text written by Joe Watson
>Radio Receiver R-140/FSM-1 (TM11-885) Technical Manual 82
pages<

73

Robert W. Downs
<rwdowns_wa5cab@compuserve.com>
Houston, TX/Bayou LaBatre, AL

Message-ID: <3C1EA053.7A5376B8@metronet.com>
Date: Mon, 17 Dec 2001 19:48:03 -0600
From: Neal McEwen <nmcewen@metronet.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: mbuntain@netscape.net
Subject: GR test equipment for Xtal engineering
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Friends,

This fellow has three racks full of General Radio test equipment used
in crystal engineering that he must dispose of. You pick up Tucson,
AZ. He wants to find it a good home so he does not have to take it to
a landfill. The price is right!

Reply to him, not me at mbuntain@netscape.net (Mark Buntain)

--

73 de K5RW, Neal McEwen, at "The Telegraph Office", nmcewen@metronet.com
A WWW Page for Telegraph Key Collectors and Historians
http://www.metronet.com/~nmcewen/tel_off.html

Date: Mon, 17 Dec 2001 22:39:11 -0500
From: "R. W. Downs - BLB, AL" <RWDowns_WA5CAB@compuserve.com>
Subject: RE: SBE-2 Manual
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200112172239_MC3-EB0E-4F9D@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Groups,

Scan & cleanup of the maintenance manual for the TMC SBE-2, SBE-2A, AN/URA-23 is finally finished, so I can now do a reprint of it. I think that a couple of you were waiting (I hope patiently) for one.

73

Robert W. Downs
<rwdowns_wa5cab@compuserve.com>
Houston, TX/Bayou LaBatre, AL

Message-ID:
<07A064EA6042D4118A62009027F70E77181D43@nt_exchange.vifp.monash.edu.au>
From: Morris Odell <MorrisO@vifp.monash.edu.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: R-392
Date: Tue, 18 Dec 2001 18:11:27 +1100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi all,

A note of thanks to all who replied about the R392 tag. I received many replies, some with attached .jpg files of the label. Within 15 minutes of posting the request someone had offered to post me a spare nameplate for free.

This is an amazing list and the resources and gentlemanly behaviour here are legendary.

Thanks guys, and happy holidays to you all.

73, Morris

>

From: w5sum@glowbugs.com
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 18 Dec 2001 06:03:13 -0600
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: 75A4 Filter Mod
Message-ID: <3C1EDC21.15637.5C9C59@localhost>

howdy men
for the life of me I can't believe I don't have this information in all my
stuff BUT

I need the mods to remove the voltage off the mechanical filters. A
friend of mine wants to do this to his A4.

Can anyone help me with this?

thanks and Merry Christmas

Ronnie

To: Old Tube Radios <boatanchors@theporch.com>
Cc: marconifon@aol.com
Date: Mon, 17 Dec 2001 19:34:01 -0600
Subject: BC-450 CONTROL BOX
Message-ID: <20011217.194917.-271847.2.jackiv@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: JACK M IVERSON <jackiv@juno.com>

hi gang. I found this the other day and want to know what the value
may be. not complete, needs knobs and one pot. Has two plugs still
plugged in to two of the rx connectors. all 3 cranks there. Dials for
6-9.1, 190-550, and 3-6. only two of the "flag" type knobs left. Mounting
plate there but screws gone.

73 Jack K0EWU jackiv@juno.com

Message-ID: <3C1E969B.2030004@mr.net>
Date: Mon, 17 Dec 2001 19:06:35 -0600
From: Robert Kemp <rkemp@mr.net>
MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>
Subject: Wanted: Schematic for Viking II CDC
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

I'm in need of the schematic for the Viking II cdc.
Bob.

Message-Id: <5.1.0.14.2.20011218075746.00ac3870@po.muohio.edu>
Date: Tue, 18 Dec 2001 08:04:28 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "James C. Garland" <4cx250b@miavx1.acs.muohio.edu>
Subject: Annual Hallicrafters FPM-200 Owners Update
Cc: hallicrafters@qth.net
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Gang,
It's time for me to update my Hallicrafters FPM-200 transceiver owner's directory. This year, I've put the directory on a webpage at http://www.muohio.edu/~4cx250b/web/fpm200_list.htm

If you have an FPM-200, or know somebody who has one, I'd appreciate your checking the list and notifying me if it's not current.

This past year, there are two changes to the list: Hans Zimmerman sold his radio to a ham in CA, and I don't know the buyer's identity. And there is a new addition to the list from an Italian ham, who has a mint condition FPM-200 that is for sale or trade.

With these changes, the number of known radios is up to 25, including a few that were assembled from surplused factory modules and have no serial numbers. This radio is the rarest and most expensive radio produced by Hallicrafters (\$2600 list price in 1959).

Thanks for your help.
73,
Jim Garland W8ZR

Date: Tue, 18 Dec 2001 08:11:50 -0500 (EST)
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
Message-Id: <200112181311.IAA07997@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 75A4 Filter Mod

Shunt feed. Refence Radio Armature's or Radio Handbook. Any ed'n.

Just arithmetic.

100mh in series w. prior IF amp plate w. 390 coupler to input transducer.

HOW?

Z of transducer for 6BA6 doing 10ma @ 200V is 20K
(ohms law - ref clifford ohm)

shunt feed oughta be 10x so 100mh @ 455kc is ~300K
($Z=2\pi FL$ - ref donnie tesla)

coupler shud be < .1 load & 390pf @ 455kc is ~1K
($Z=1/[2\pi FC]$ - ibid Z1)

I can't go beyond that - no implementation or mod notes & no reason why to do it. My A4's been running fb un-mod'd for 44 years - save...

avc amp SM input coupler that became leaky in '80.

Think this one in Collins deep-science archive that reports is reason S-meter can go bonkers

Ooops, on proof read looks like cynicism dial was over 20%.

Sri.

Marty

Date: Tue, 18 Dec 2001 08:42:31 -0500 (EST)
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
Message-Id: <200112181342.IAA09918@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Subject: Ray V's SP-600 drill

First big tnx Al Parker for your web-site

Next I say bull on all the blither changing out every BBOD which I guess is a insider's name for a Sprague Black Beauty cap from the 50s.

I've done several of these for friends & have proceded this way

Apply 300V B+ to set w. filaments off (simple external power supply thru 20K w-w)

If more than 10ma after an hour or so, there's a bad electrolytic or BBOD(?) somewhere. I've never found ANY. At his point check 6AQ5 output for trace B+ on grid & do it's BBOD.

Then apply same 300V to AVC line & check current & if more than 1 ma, go to work on AVC bypasses.

There's perhaps 6 in RF deck & my stunt is to clip out those BBODs & tag in .01 discs. < 1hr.

Ray V's mechanical instructions look excellent. But shotgunning the whole thing? Naaaaah. Maybe shotgunning super hi Z stuff - well OK.

Why make a hydro project outa a fawcet washer. That's my 2 cents

'rm

From: "Don Buska" <d.buska@Advantest.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 18 Dec 2001 07:48:08 -0600 (CST)
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Subject: Seasons Greetings - Updated Downloadable ER Index Now Available
Message-Id: <01Dec18.055058pst.119079@gatekeeper.advantest.com>

I have a new updated version, through December 2001 (issue 1-151), of the downloadable Electric Radio (ER) magazine Index available at my site. It now contains reference to over 3100 articles. As always the on-line searchable ER Index continues to be updated monthly!

Three download file versions are available. See webpage for details on the different file types that are available.

As a side note, I do continue to update the on-line searchable Collins Article Index as well. This index now references 354 Collins related articles that have appeared in differing amateur radio publications from the 1940's to present. I'm always seeking additions and corrections to both indexes.

The site: <http://www.qsl.net/n9oo>

73 and Seasons Greetings

Don N900

```
*****
**                                     **
** Don Buska N900 (EN62bo)           Mgr - Pupport Center      **
** 4805 64th Ave. Kenosha, WI 53144  Advantest America Inc.    **
** (262)654-0072                     (847)821-3393             **
** d.buska@advantest.com              fax (847)634-2872        **
**                                     **
**           ----- Wants ----- **
** RCA      | James Millen Equipment      | CSVHFS **
** AWA-LM    | Transmitters by Thordarson, Stancor, | NTMS  **
** AMI       | UTC and other transformer companies. | ARRL-LM **
** QCWA      |                               |          **
** JMS       |                               |          **
**                                     **
**                               http://www.qsl.net/n9oo          **
** Home of the Electric Radio & Collins Magazine Index's      **
**                                     **
*****
```

```
-----
Date: Tue, 18 Dec 2001 07:01:05 -0700
Message-ID: <004601c187cc$71a19ea0$0100a8c0@smeccxp>
From: "ed sharpe" <esharpe@uswest.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Seasons Greetings - Updated Downloadable ER Index Now Available
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

this is a great reference! Kudos' keep up the good work!
ed sharpe archivist for smecc

----- Original Message -----

```
From: "Don Buska" <d.buska@Advantest.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Tuesday, December 18, 2001 6:48 AM
Subject: Seasons Greetings - Updated Downloadable ER Index Now Available
```

>

> I have a new updated version, through December 2001 (issue 1-151), of the
downloadable

> Electric Radio (ER) magazine Index available at my site. It now contains reference to
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 >
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 > have appeared in differing amateur radio publications from the 1940's to present.
 > I'm always seeking additions and corrections to both indexes.
 >
 > The site: <http://www.qsl.net/n9oo>
 >

> 73 and Seasons Greetings
 >

> Don N900
 >
 >
 >
 >
 >

> *****

> ** **
 > ** Don Buska N900 (EN62bo) Mgr - Pupport Center **
 > ** 4805 64th Ave. Kenosha, WI 53144 Advantest America Inc. **
 > ** (262)654-0072 (847)821-3393 **
 > ** d.buska@advantest.com fax (847)634-2872 **

> ** **
 > ** ----- Wants ----- **

> ** RCA	James Millen Equipment	CSVHFS	**
> ** AWA-LM	Transmitters by Thordarson, Stancor,	NTMS	**
> ** AMI	UTC and other transformer companies.	ARRL-LM	**
> ** QCWA			**
> ** JMS			**

> ** **
 > ** <http://www.qsl.net/n9oo> **
 > ** Home of the Electric Radio & Collins Magazine Index's **
 > ** **

> *****

>

>

>

>

Message-ID: <0db101c187f3\$9919eba0\$6401a8c0@ec.rr.com>
From: "Al Parker" <anchor@ec.rr.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "BAlist-porch" <boatanchors@theporch.com>
Subject: Re: Ray V's SP-600 drill
Date: Tue, 18 Dec 2001 13:41:25 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

Hi Marty,

Tnx for your comment on the website. But most of us who've owned SP-600's for any time will disagree with your non-shotgun approach. For many other situations we'd agree, but from experience, a BBOD (black beauty of death) will go bad soon under use, if it hasn't already. I've refurbed 4 of them in the past cupla yrs, & now hv 2 more to do. Often they do operate when recd, but I've found that if you keep using them, the BBOD's will fail one by one, without much time between. Bear in mind, there are roughly 50 of these in each rcvr. I spent more time chasing them down & fixing than I did listening, on the one I tried that way. I think those who have done the "shotgun" approach to an SP-600 have found that at least half of the removed BBOD's (or GLOD's, gray lady of deception) have been split and/or are leaky when tested.

Many of them are in high impedance ckts, and your B+ test will not necessarily let you know. Hammarlund may have realized early that they were a problem, as they used disc ceramics in some radios, and even stated in one of the the manuals that they should be used for replacement of the plastics, along with switching to .01's completely, instead of a mix of .01 & .022's. I don't know why they didn't stay with the disc ceramics totally after that, maybe they had run out of paper/plastics & had to shift to more expensive disc ceramics for a while. Another note, the -JX-17 manual lists supplier of the paper/plastics as Aerovox, not Sprague. Haven't ckd other manuals.

73,

Al, W8UT

New Bern, NC

BoatAnchors appreciated here

anchor@ec.rr.com

<http://www.thecompendium.net/radio/>

And remember; "-They don't make tubes nowadays like they used to..."

----- Original Message -----

From: "Marty's Refl. Drop" <polepeeg@aaa4rm.ba-watch.org>

> First big tnx Al Parker for your web-site
>
> Next I say bull on all the blither changing out every BBOD which
> I guess is a insider's name for a Sprague Black Beauty cap from the
> 50s.

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.306 / Virus Database: 166 - Release Date: 12/13/01

Message-ID: <007f01c187f5\$35274d70\$0100a8c0@SERVER>
From: "Bill Coleman" <n2bc@stny.rr.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: <boatanchors@theporch.com>
Subject: Re: Ray V's SP-600 drill
Date: Tue, 18 Dec 2001 13:52:55 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hmmm. There's an easier way to diagnose the Black Beauties in an SP-600. A quick peek to see how many screen dropping resistors have been vaporized! In the SP-600 I did, most of the black beauties had split in half and most of the screen dropping resistors were gone. It was a very easy decision to replace each and every Black Beauty.

Before any power is applied, I scan the schematic of any radio that has these nasty things looking for potential secondary damage. Resistors are easy to find-n-fix, an IF tranny that has been out of stock for 50 years is not so easy.

Based on the experience I had with the SP-600 (and BTW it may well be a SP-600 only phenom!) - I go for the pre-emptive strike.

Besides, Orange Drops are much more festive than those black beasies!

73 & Happy Holidays Bill N2BC

~~~~~

Bill Coleman N2BC  
<http://home.stny.rr.com/n2bc>

----- Original Message -----

From: "Marty's Refl. Drop" <polepeeg@aaa4rm.ba-watch.org>



To: "Old Tube Radios" <boatanchors@theporch.com>  
Cc: <boatanchors@theporch.com>  
Sent: Tuesday, December 18, 2001 8:42 AM  
Subject: Ray V's SP-600 drill

> First big tnx Al Parker for your web-site  
>  
> Next I say bull on all the blither changing out every BBOD which  
> I guess is a insider's name for a Sprague Black Beauty cap from the  
> 50s.  
>  
> I've done several of these for friends & have proceded this way  
>  
> Apply 300V B+ to set w. filaments off (simple external power supply thru  
> 20K w-w)  
>  
> If more than 10ma after an hour or so, there's a bad electrolytic or  
> BBOD(?) somewhere. I've never found ANY. At his point check  
> 6AQ5 output for trace B+ on grid & do it's BBOD.  
>  
> Then apply same 300V to AVC line & check currrent & if more than 1 ma, go  
> to work on AVC bypasses.  
>  
> There's perhaps 6 in RF deck & my stunt is to clip out those BBODs & tag  
> in .01 discs. < 1hr.  
>  
> Ray V's mechanical instructions look excellent. But shotgunning the  
> whole thing? Naaaah. Maybe shotgunning super hi Z stuff - well OK.  
>  
> Why make a hydro project outa a fawcet washer. That's my 2 cents  
>  
> 'rm  
>  
>

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End of BOATANCHORS Digest 3269  
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